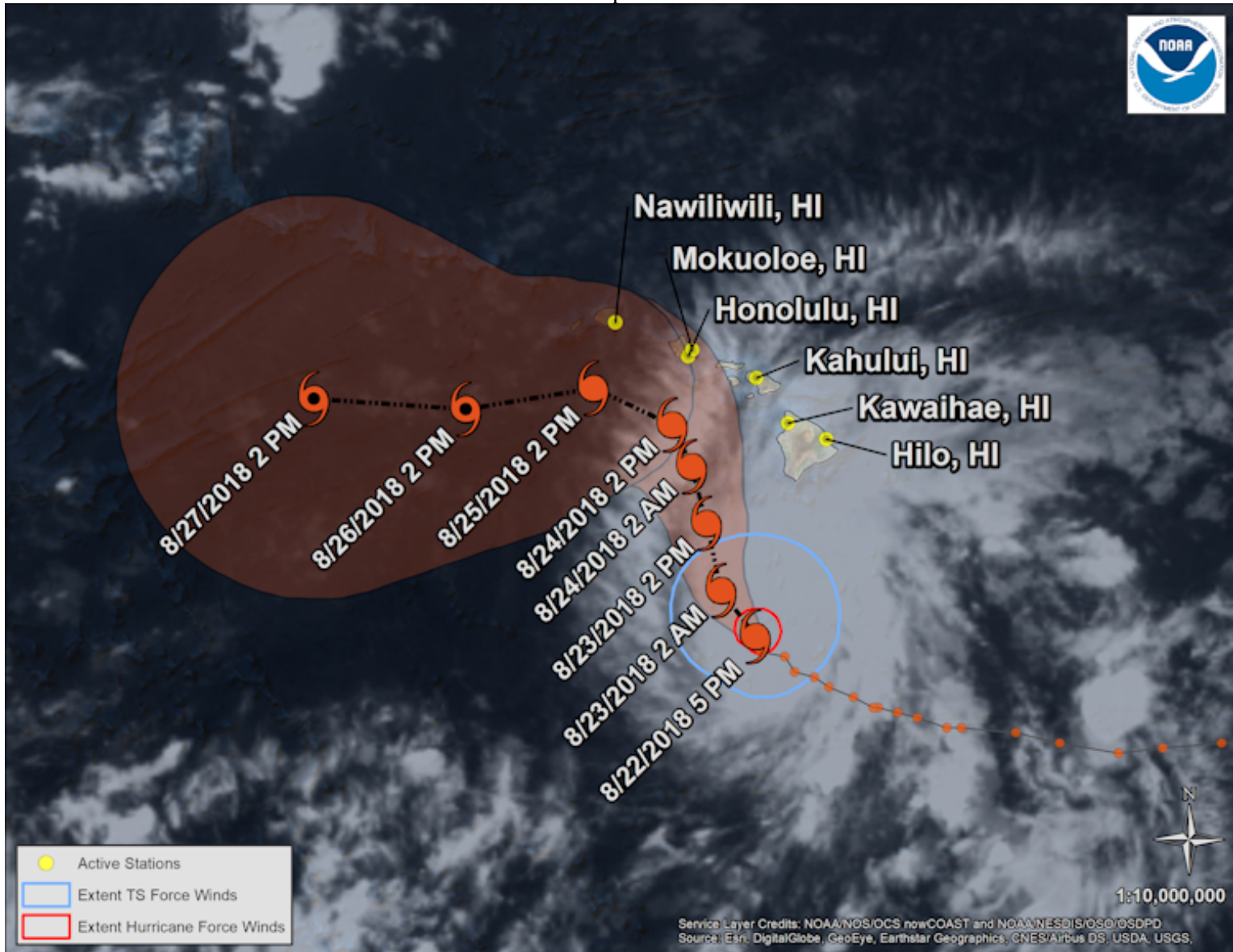




Hurricane Lane QuickLook
Posted: 18:00 HST 08/22/2018

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 8/22/2018 18:00 HST water levels around the Hawaiian Islands are slightly elevated and generally range between 0.3 and 0.6 feet above normal tide levels. Winds of 5-15 knots are being observed across the region with gusts up to 20 knots. Barometric pressure continues to trend downward throughout the islands.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: RCL

Select Central Pacific Hurricane Center Advisory Information:

Hurricane Lane Advisory Number 34
NWS Central Pacific Hurricane Center Honolulu HI
500 PM HST Wed Aug 22 2018

...DANGEROUS HURRICANE LANE TRACKING NORTHWEST AND ON COURSE TO
PASS VERY CLOSE TO THE ISLANDS THURSDAY AND FRIDAY...

SUMMARY OF 500 PM HST...0300 UTC...INFORMATION

LOCATION...15.9N 156.5W
ABOUT 260 MI...415 KM S OF KAILUA-KONA HAWAII
ABOUT 385 MI...620 KM SSE OF HONOLULU HAWAII
MAXIMUM SUSTAINED WINDS...145 MPH...230 KM/H
PRESENT MOVEMENT...NW OR 310 DEGREES AT 8 MPH...13 KM/H
MINIMUM CENTRAL PRESSURE...939 MB...27.73 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

The Hurricane Watch has been changed to a Hurricane Warning for the island of Oahu.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- * Oahu
- * Maui County...including the islands of Maui, Lanai, Molokai and Kahoolawe
- * Hawaii County

A Hurricane Watch is in effect for...

- * Kauai County...including the islands of Kauai and Niihau

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

Interests in the the Northwestern Hawaiian Islands should monitor the progress of Hurricane Lane.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu Hawaii.

DISCUSSION AND OUTLOOK

At 500 PM HST (0300 UTC), the eye of Hurricane Lane was located near latitude 15.9 North, longitude 156.5 West. Lane is moving toward the northwest near 8 mph (13 km/h). This motion is expected to continue tonight, with a turn toward the north and a slower forward motion expected on Friday. A turn back toward the west is expected on Saturday. On the forecast track, the center of Lane will move very close to or over the main Hawaiian Islands Thursday and Friday.

Maximum sustained winds are near 145 mph (230 km/h) with higher gusts. Lane is a powerful category 4 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some weakening is forecast during the next few days, but Lane is expected to remain a hurricane as it approaches the islands.

Hurricane-force winds extend outward up to 40 miles (65 km) from the center and tropical-storm-force winds extend outward up to 140 miles (220 km).

The estimated minimum central pressure is 939 mb (27.73 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected on portions of the Big Island beginning early Thursday morning, with hurricane conditions expected in some areas Thursday afternoon or Thursday night. Tropical storm conditions are expected to begin over portions of Maui county on Thursday, with hurricane conditions expected in some

areas Thursday night into Friday. Tropical storm conditions are expected to begin on Oahu late Thursday night, with hurricane conditions expected Friday.

RAINFALL: Rainbands from Hurricane Lane will continue to gradually overspread the state tonight and Thursday. Excessive rainfall associated with Lane is expected to affect portions of the Hawaiian Islands from late today into the weekend. This could lead to major flash flooding and landslides. Lane is expected to produce total rain accumulations of 10 to 15 inches with localized amounts in excess of 20 inches over the Hawaiian Islands.

SURF: Large swells generated by Lane will impact the Hawaiian Islands, spreading across the island chain tonight and Thursday. These swells will produce very large and potentially damaging surf along exposed west, south and east facing shorelines.

STORM SURGE: The combination of a dangerous storm surge and large breaking waves will raise water levels by as much as 2 to 4 feet above normal tide levels along south and west facing shores near the center of Lane. The surge will be accompanied by large and destructive waves.

NEXT ADVISORY

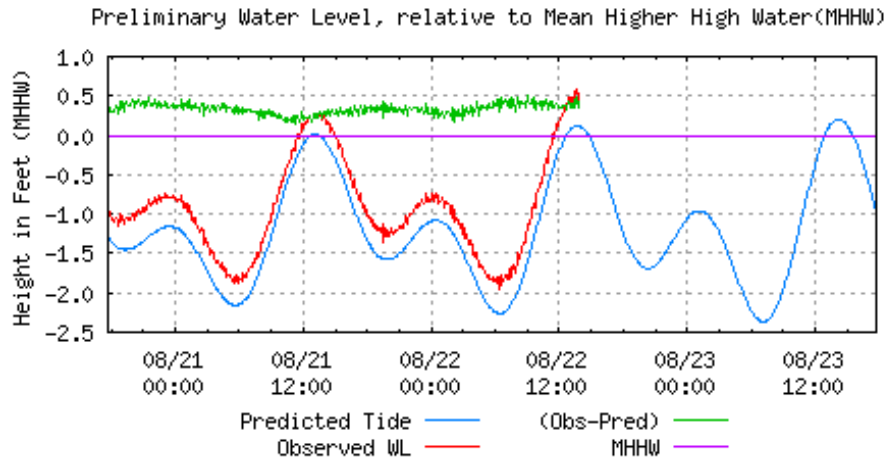
Next intermediate advisory at 800 PM HST.
Next complete advisory at 1100 PM HST.

Forecaster R Ballard

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#)

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



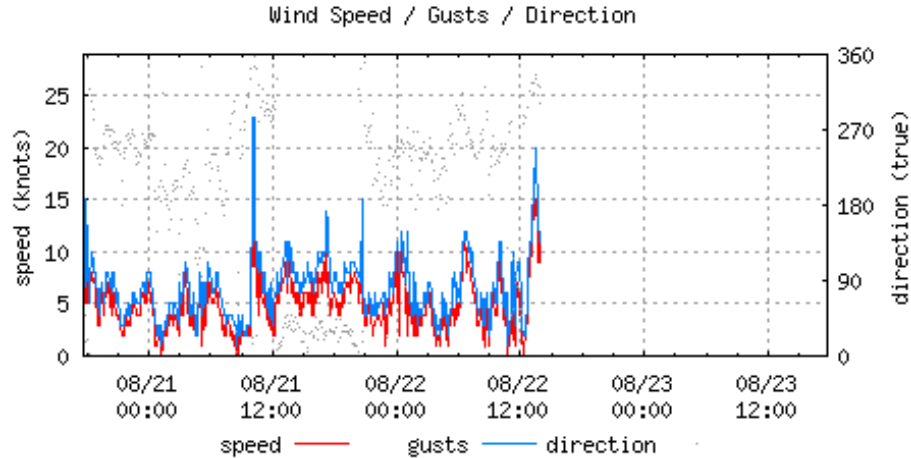
Last Observed Sample: 08/22/2018 13:54 (HST). Data relative to MHHW

Observed: 0.45 ft. Predicted: 0.11 ft. Residual: 0.34 ft.

Historical Maximum Water Level: Jul 24 2017, 1.54 ft.

Next High Tide: 08/23/2018 01:07 (HST), -0.96 ft.

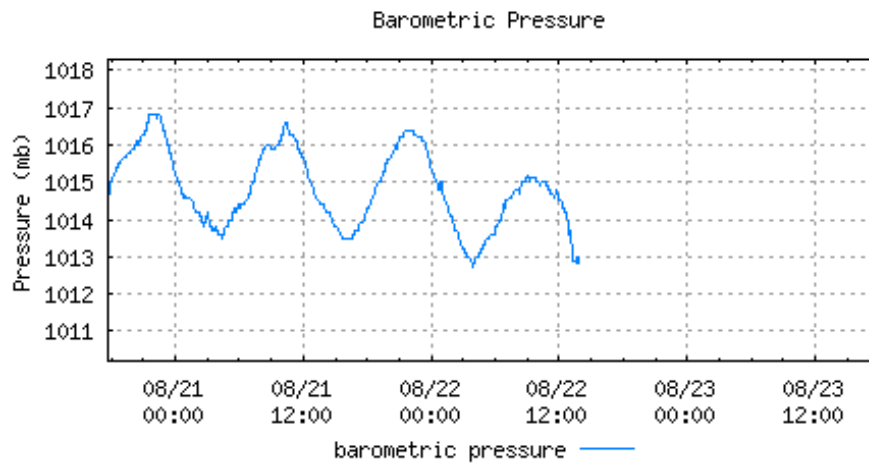
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Wind Speed: 11 knots Gusts: 12 knots Direction: 321° T

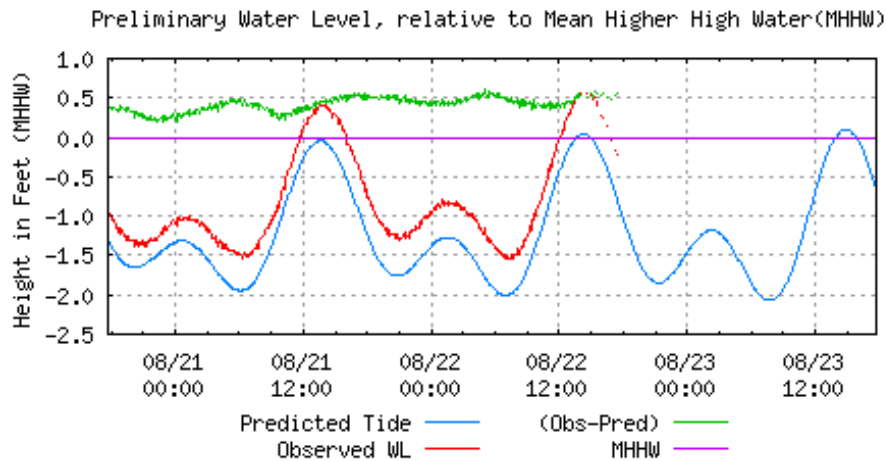
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Barometric Pressure: 1012.8 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



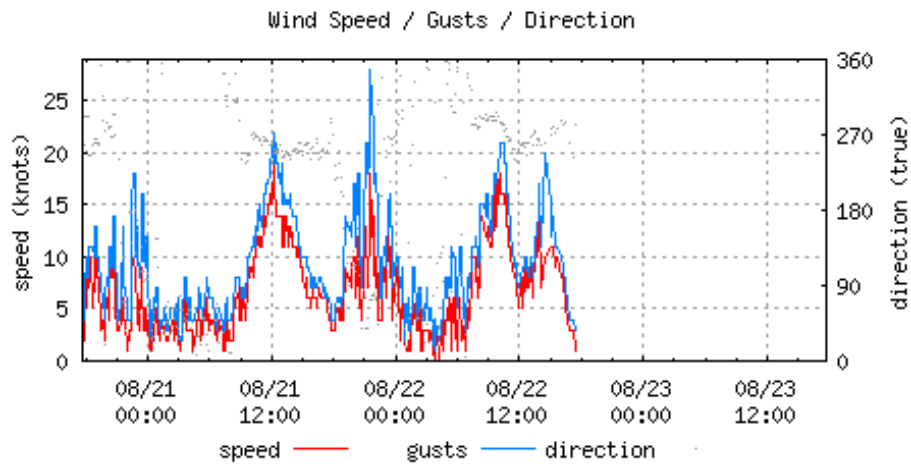
Last Observed Sample: 08/22/2018 17:24 (HST). Data relative to MHHW

Observed: -0.23 ft. Predicted: -0.79 ft. Residual: 0.56 ft.

Historical Maximum Water Level: Dec 15 2016, 1.33 ft.

Next High Tide: 08/23/2018 02:16 (HST), -1.18 ft.

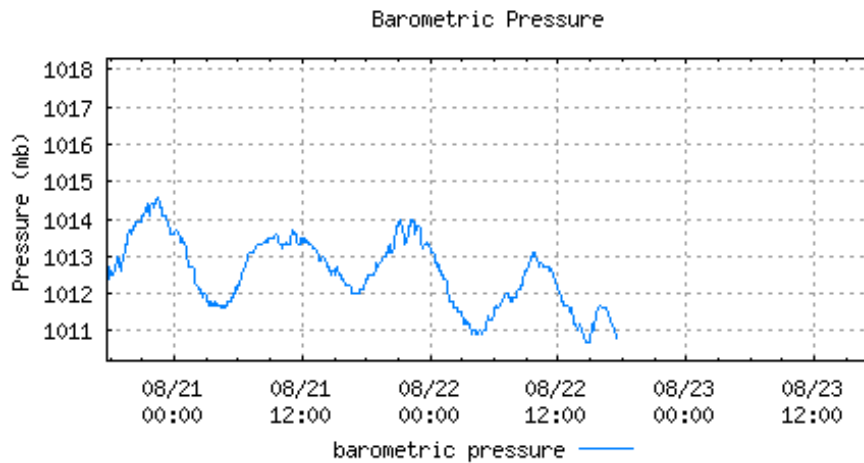
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



Last Observed Sample: 08/22/2018 17:24 (HST)

Wind Speed: 1 knots Gusts: 3 knots Direction: 281° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

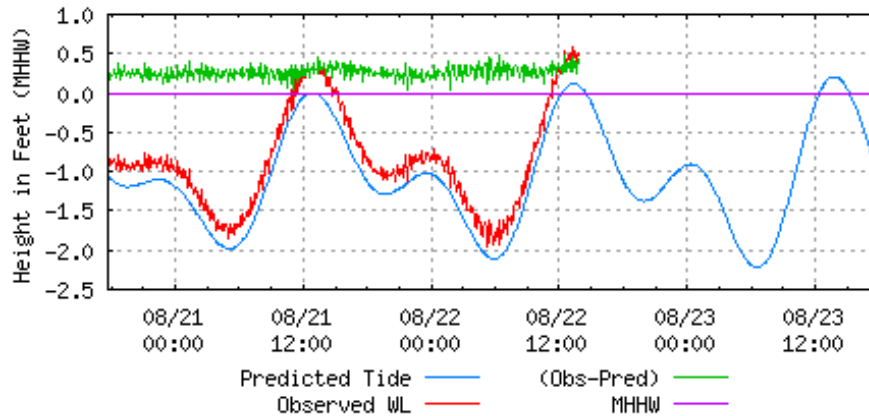


Last Observed Sample: 08/22/2018 17:24 (HST)

Barometric Pressure: 1010.8 mb

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/22/2018 13:54 (HST). Data relative to MHHW

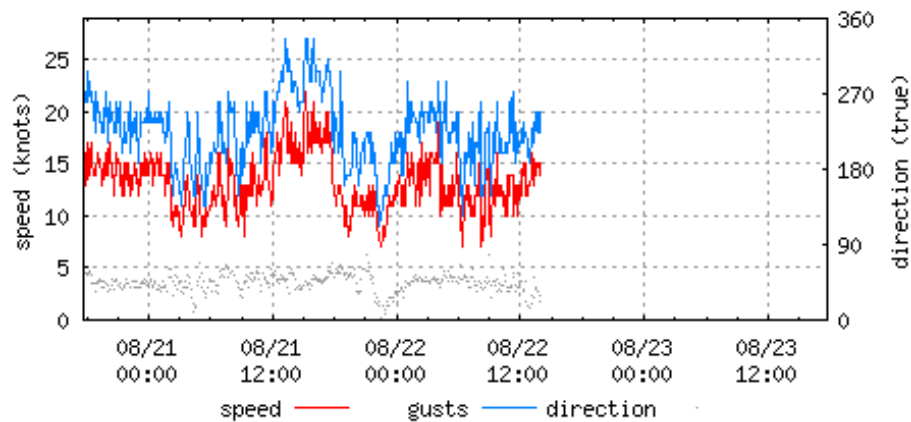
Observed: 0.52 ft. Predicted: 0.09 ft. Residual: 0.43 ft.

Historical Maximum Water Level: Aug 21 2017, 1.33 ft.

Next High Tide: 08/23/2018 00:19 (HST), -0.91 ft.

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

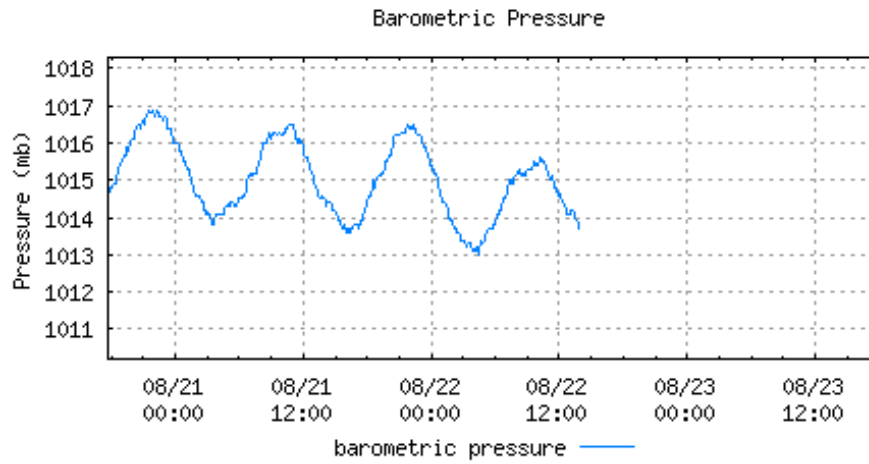
Wind Speed / Gusts / Direction



Last Observed Sample: 08/22/2018 13:54 (HST)

Wind Speed: 15 knots Gusts: 18 knots Direction: 21° T

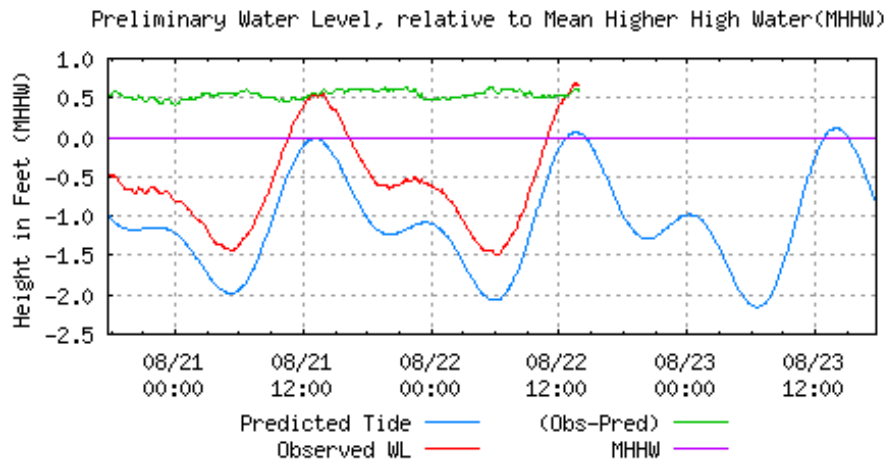
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Barometric Pressure: 1013.7 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



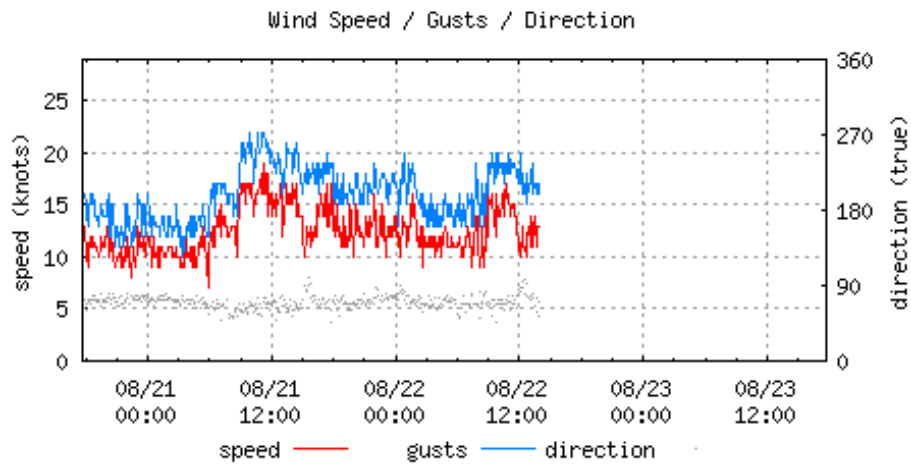
Last Observed Sample: 08/22/2018 13:54 (HST). Data relative to MHHW

Observed: 0.67 ft. Predicted: 0.05 ft. Residual: 0.62 ft.

Historical Maximum Water Level: Aug 21 2017, 1.47 ft.

Next High Tide: 08/23/2018 00:12 (HST), -0.98 ft.

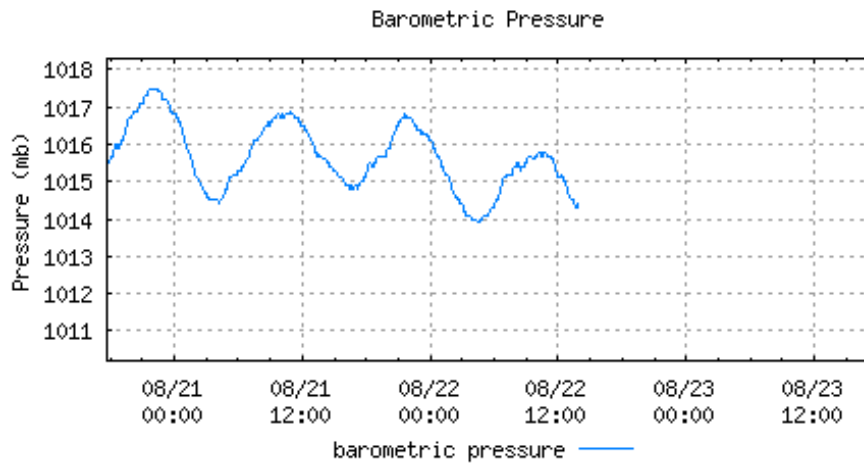
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Wind Speed: 13 knots Gusts: 17 knots Direction: 71° T

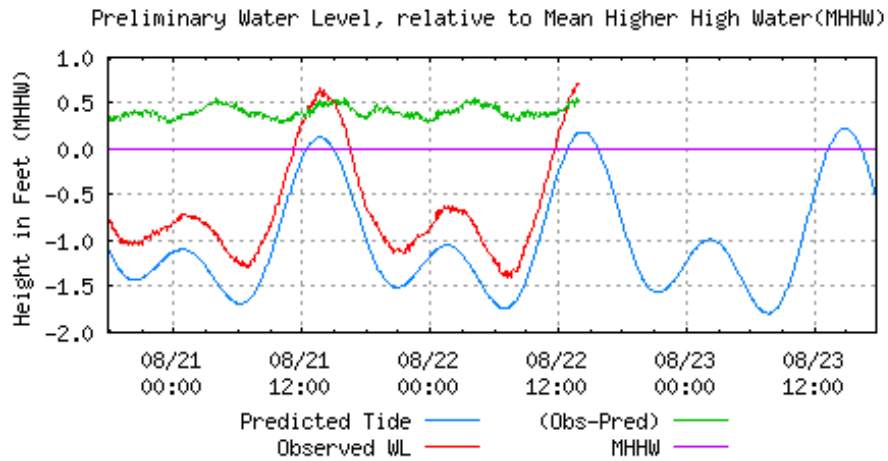
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Barometric Pressure: 1014.4 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



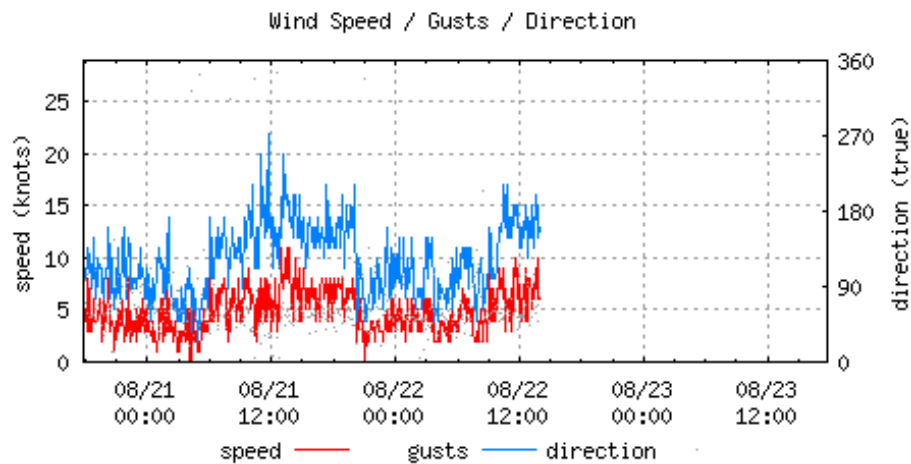
Last Observed Sample: 08/22/2018 13:54 (HST). Data relative to MHHW

Observed: 0.71 ft. Predicted: 0.18 ft. Residual: 0.53 ft.

Historical Maximum Water Level: Sep 11 1992, 1.47 ft.

Next High Tide: 08/22/2018 14:17 (HST), 0.19 ft.

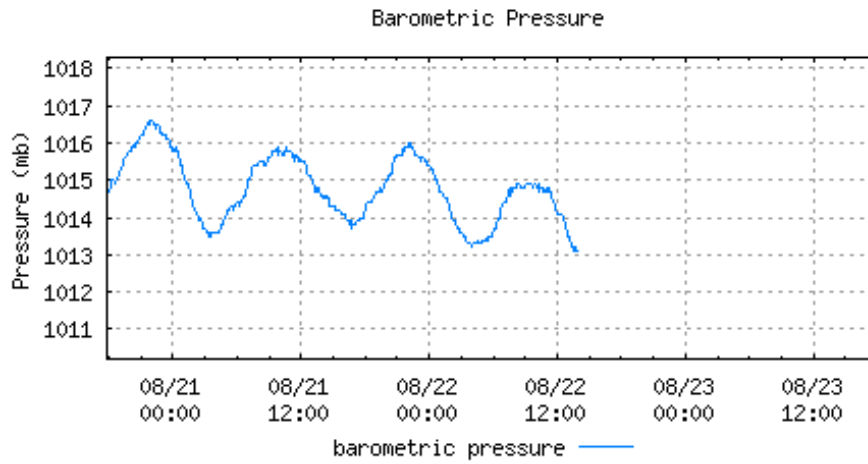
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Wind Speed: 6 knots Gusts: 13 knots Direction: 78° T

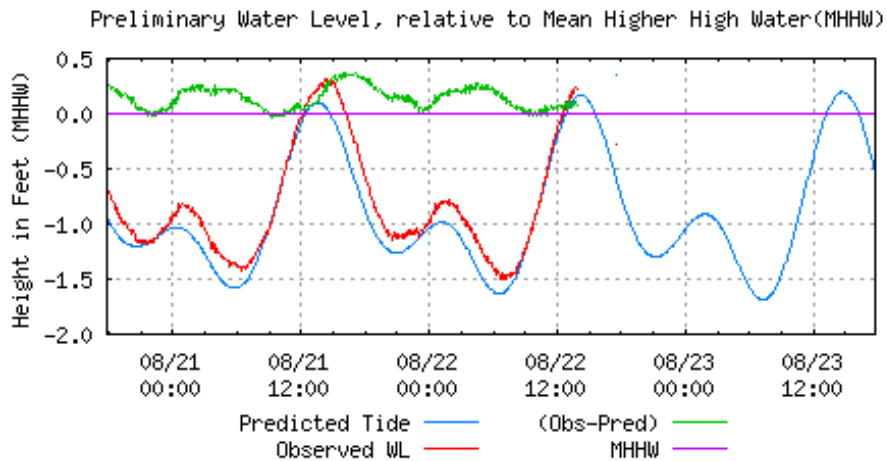
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/22/2018 13:54 (HST)

Barometric Pressure: 1013.1 mb

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



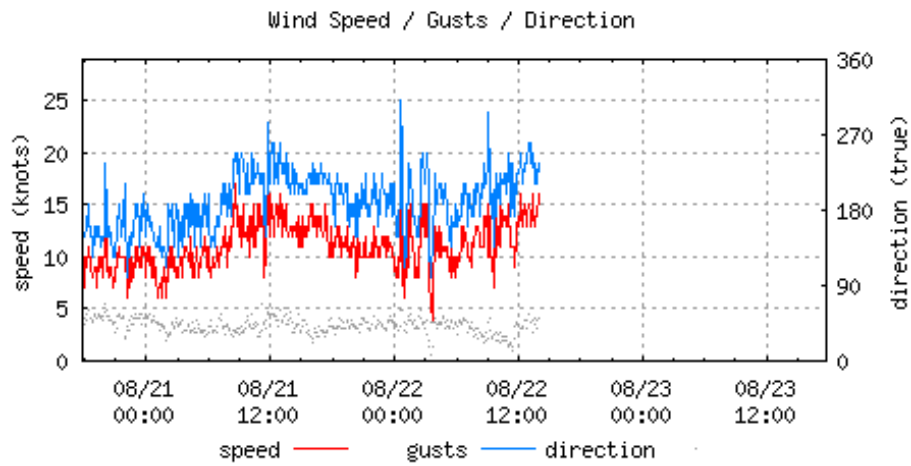
Last Observed Sample: 08/22/2018 17:36 (HST). Data relative to MHHW

Observed: -0.27 ft. Predicted: -0.62 ft. Residual: 0.35 ft.

Historical Maximum Water Level: Sep 11 1992, 3.15 ft.

Next High Tide: 08/23/2018 01:50 (HST), -0.91 ft.

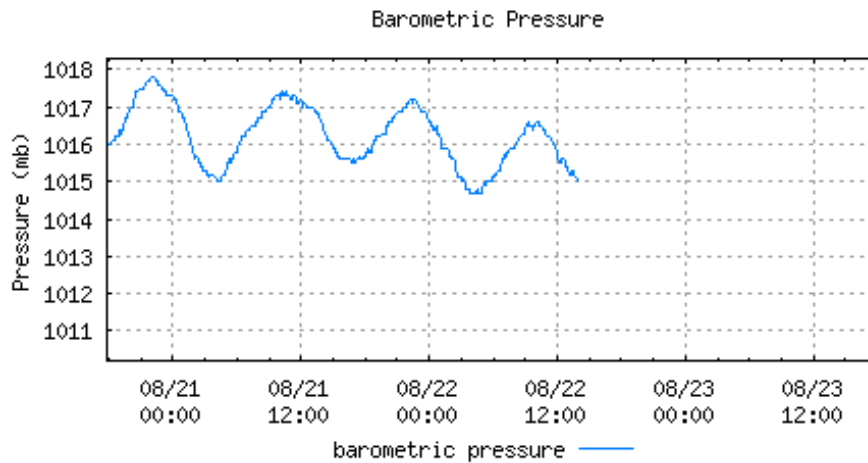
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/22/2018 17:36 (HST)

Wind Speed: 16 knots Gusts: 19 knots Direction: 52° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/22/2018 17:36 (HST)

Barometric Pressure: 1015.0 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/22/2018 13:54 (HST)	0.45 ft	0.11 ft	0.34 ft	0.59 ft
1617433	Kawaihae, HI	08/22/2018 17:24 (HST)	-0.23 ft	-0.79 ft	0.56 ft	0.57 ft
1615680	Kahului, Kahului Harbor, HI	08/22/2018 13:54 (HST)	0.52 ft	0.09 ft	0.43 ft	0.58 ft
1612480	Mokuoloe, HI	08/22/2018 13:54 (HST)	0.67 ft	0.05 ft	0.62 ft	0.68 ft
1612340	Honolulu, HI	08/22/2018 13:54 (HST)	0.71 ft	0.18 ft	0.53 ft	0.71 ft
1611400	Nawiliwili, HI	08/22/2018 17:36 (HST)	-0.27 ft	-0.62 ft	0.35 ft	0.32 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce